

1           1. In a device having one or more electronic program guide (EPG) loaders  
2 enabling the device to receive EPG data from one or more EPG sources, a method for  
3 interfacing the one or more EPG loaders with a database associated with the device, the  
4 method comprising the steps of:

5                     calling a function of a writer module operating at the device that collects the  
6 EPG data from the EPG loaders and that stores the EPG data in the database; and  
7                     executing the function by the writer module.

8  
9           2. A method as in claim 1, wherein the function comprises AudioSubChannel  
10 having parameters comprising languageCode, isMainAudioService, isDolbyEncoded, and  
11 programType.

12  
13           3. A method as in claim 1, wherein the function comprises  
14 AudioSubChannelForScheduleEntry having parameters comprising scheduleDataID and  
15 audioDataID.

16  
17           4. A method as in claim 1, wherein the function comprises  
18 CategorizationSystems having parameters comprising categorizationSystemName and  
19 systemDataID.

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21           5. A method as in claim 1, wherein the function comprises CategoryPair having  
22 parameters comprising systemDataID, categoryName, subCategoryName, and  
23 categorypairDataID.

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1 6. A method as in claim 1, wherein the function comprises CategoryForProgram  
2 having parameters comprising programDataID and categoryPairDataID.

3  
4 7. A method as in claim 1, wherein the function comprises Channel having  
5 parameters comprising serviceRecordID, channel, network, station, description,  
6 channelType, startSeconds, and channelDataID.

7  
8 8. A method as in claim 1, wherein the function comprises ClearAll.

9  
10 9. A method as in claim 1, wherein the function comprises ClearChannels.

11  
12 10. A method as in claim 1, wherein the function comprises ClearPrograms.

13  
14 11. A method as in claim 1, wherein the function comprises  
15 ClearScheduleEntries.

16  
17 12. A method as in claim 1, wherein the function comprises  
18 DeleteAudioSubChannel having parameter audioDataID.

19  
20 13. A method as in claim 1, wherein the function comprises  
21 DeleteCategorizationSystem having parameter systemDataID.

22  
23 14. A method as in claim 1, wherein the function comprises DeleteCategoryPair  
24 having parameters comprising systemDataID, categoryName, and subCategoryName.

1 15. A method as in claim 1, wherein the function comprises DeleteChannel  
2 having parameters comprising channelObject and propertyName.

3  
4 16. A method as in claim 1, wherein the function comprises Delete  
5 PropertyForProgram having parameters comprising programObject and propertyName.

6  
7 17. A method as in claim 1, wherein the function comprises  
8 DeletePropertyForScheduleEntry having parameters comprising scheduleEntryObject and  
9 propertyName.

10  
11 18. A method as in claim 1, wherein the function comprises  
12 DeletePropertyForWeblink having parameters comprising weblinkObject and  
13 propertyName.

14  
15 19. A method as in claim 1, wherein the function comprises DeleteScheduleEntry  
16 having parameter scheduleEntryObject.

17  
18 20. A method as in claim 1, wherein the function comprises DeleteSharingDay  
19 having parameter sharingDayDataID.

20  
21 21. A method as in claim 1, wherein the function comprises  
22 DeleteVideoSubChannel having parameter videoDataID.

1           22.   A method as in claim 1, wherein the function comprises DeleteWeblink  
2   having parameter weblinkObject.

3  
4           23.   A method as in claim 1, wherein the function comprises  
5   EnableDuplicateChecking having parameter preventDuplicates.

6  
7           24.   A method as in claim 1, wherein the function comprises Program having  
8   parameters comprising programTitle, programDescription, yearMade, seconds, and  
9   programDataID.

10  
11          25.   A method as in claim 1, wherein the function comprises PropertyForChannel  
12   having parameters comprising channelDataID, name, and value.

13  
14          26.   A method as in claim 1, wherein the function comprises PropertyForProgram  
15   having parameters comprising programDataID, name, and value.

16  
17          27.   A method as in claim 1, wherein the function comprises  
18   PropertyForScheduleEntry having parameters comprising scheduleEntryDataID, name, and  
19   value.

20  
21          28.   A method as in claim 1, wherein the function comprises PropertyForWeblink  
22   having parameters comprising weblinkDataID, name, and value.

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1 29. A method as in claim 1, wherein the function comprises  
2 PurchaseStringForScheduleEntry having parameters comprising scheduleEntryDataID and  
3 purchaseString.

4  
5 30. A method as in claim 1, wherein the function comprises RatingForProgram  
6 having parameters comprising programDataID and ratingCode.

7  
8 31. A method as in claim 1, wherein the function comprises  
9 RemoveOldScheduleEntriesAndPrograms having parameter beforeThisTime.

10  
11 32. A method as in claim 1, wherein the function comprises ScheduleEntry  
12 having parameters comprising eventID, channelDataID, startTime, endTime, cc, rerun,  
13 videoDataID, audioDataID, and scheduleEntryDataID.

14  
15 33. A method as in claim 1, wherein the function comprises SharingDay having  
16 parameters comprising startDay, startTime, endDay, endTime, and pSharingDataID.

17  
18 34. A method as in claim 1, wherein the function comprises  
19 SharingDayForChannel having parameters comprising channelDataID, and sharingDataID.

20  
21 35. A method as in claim 1, wherein the function comprises UpdateComplete.  
22  
23  
24

1           36. A method as in claim 1, wherein the function comprises VideoSubChannel  
2 having parameters comprising language, aspectRatio, videoSourceHeight,  
3 videoSourceWidth, squarePixel, componentType, streamed, and videoDataID.

4  
5           37. A method as in claim 1, wherein the function comprises  
6 VideoSubChannelForScheduleEntry having parameters comprising scheduleEntryDataID,  
7 and videoDataID.

8  
9           38. A method as in claim 1, wherein the function comprises Weblink having  
10 parameters comprising url, description, startTime, endTime, and pweblinkDataID.

11  
12           39. A method as in claim 1, wherein the function comprises WeblinkForChannel  
13 having parameters comprising channelDataID, and weblinkDataID.

14  
15           40. A method as in claim 1, wherein the function comprises WeblinkForProgram  
16 having parameters comprising programDataID, and weblinkDataID.

17  
18           41. A method as in claim 1, wherein the function comprises  
19 WeblinkForScheduleEntry having parameters comprising scheduleEntryDataID, and  
20 weblinkDataID.

21  
22           42. A computer-readable medium having computer-executable instructions for  
23 performing the steps recited in claim 1.

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1 43. In a device having electronic program guide (EPG) data from one or more  
2 EPG data sources stored in a database associated with the device, a method for interfacing  
3 the EPG data stored in the database with one or more applications operating at the device,  
4 the method comprising the steps of:

5 calling a function of a control module operating at the device that accesses  
6 the database to retrieve the EPG data and transmits the EPG data to the one or more  
7 applications; and  
8 executing the function by the control module.

9  
10 44. A method as in claim 43, wherein the function comprises  
11 CategorizationSystems having parameter psystems.

12  
13 45. A method as in claim 43, wherein the function comprises DataEndTime  
14 having parameter endTime.

15  
16 46. A method as in claim 43, wherein the function comprises  
17 HighestDataStartTime having parameter startTime.

18  
19 47. A method as in claim 43, wherein the function comprises  
20 IsAnyDataAvailable having parameter dataAvailable.

21  
22 48. A method as in claim 43, wherein the function comprises  
23 IsChannelDataAvailable having parameter channelDataAvailable.  
24

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1 49. A method as in claim 43, wherein the function comprises RatingSystems  
2 having parameter systems.

3  
4 50. A method as in claim 43, wherein the function comprises AvailableChannels  
5 having parameter channels.

6  
7 51. A method as in claim 43, wherein the function comprises  
8 CancelCategoryEventRequest.

9  
10 52. A method as in claim 43, wherein the function comprises  
11 CancelChannelEventRequest.

12  
13 53. A method as in claim 43, wherein the function comprises  
14 CancelRangeEventRequest.

15  
16 54. A method as in claim 43, wherein the function comprises Categories having  
17 parameters comprising categorizationSystemName and categories.

18  
19 55. A method as in claim 43, wherein the function comprises  
20 ChannelsForProviderNetworkName having parameters comprising searchString,  
21 substringMatch and channels.



1           56. A method as in claim 43, wherein the function comprises  
2 ChannelsForNumber having parameters comprising serviceSpace, channel, time and  
3 channels.

4  
5           57. A method as in claim 43, wherein the function comprises  
6 ChannelsForProviderName having parameters comprising searchString, substringMatch,  
7 and channels.

8  
9           58. A method as in claim 43, wherein the function comprises  
10 IsScheduleDataAvailable having parameters comprising startTime, endTime and  
11 scheduleDataAvailable.

12  
13           59. A method as in claim 43, wherein the function comprises Program having  
14 parameters comprising serviceSpace, channel, time and program.

15  
16           60. A method as in claim 43, wherein the function comprises ProgramEndTime  
17 having parameters comprising serviceSpace, channel, time, and endTime.

18  
19           61. A method as in claim 43, wherein the function comprises ProgramLength  
20 having parameters comprising serviceSpace, channel, time, and seconds.

21  
22           62. A method as in claim 43, wherein the function comprises ProgramRating  
23 having parameters comprising serviceSpace, channel, time, ratingSystem, and rating.  
24

1 63. A method as in claim 43, wherein the function comprises ProgramStartTime  
2 having parameters comprising serviceSpace, channel, time, and startTime.

3  
4 64. A method as in claim 43, wherein the function comprises ProgramTitle  
5 having parameters comprising serviceSpace, channel, time, and title.

6  
7 65. A method as in claim 43, wherein the function comprises  
8 RequestCategoryUpdateEvent.

9  
10 66. A method as in claim 43, wherein the function comprises  
11 RequestChannelUpdateEvent

12  
13 67. A method as in claim 43, wherein the function comprises  
14 RequestRangeUpdateEvent having parameters comprising startTime, and endTime.

15  
16 68. A method as in claim 43, wherein the function comprises ScheduleEntries  
17 having parameters comprising serviceSpace, channel, startTime, endTime, and  
18 scheduleEntries.

19  
20 69. A method as in claim 43, wherein the function comprises  
21 ScheduleEntriesForCategories having parameters comprising categorizationSystem,  
22 categories, startTime, endTime, maxHits, and scheduleEntries.

1 70. A method as in claim 43, wherein the function comprises  
2 ScheduleEntriesForProgramProperty having parameters comprising name, value, startTime,  
3 endTime, maxHits, and scheduleEntries.

4  
5 71. A method as in claim 43, wherein the function comprises  
6 ScheduleEntriesForProperty having parameters comprising name, value, startTime,  
7 endTime, maxHits, and scheduleEntries.

8  
9 72. A method as in claim 43, wherein the function comprises  
10 ScheduleEntriesForStrings having parameters comprising searchStrings, substringMatch,  
11 findTitle, findDescription, startTime, endTime, maxHits, and scheduleEntries.

12  
13 73. A method as in claim 43, wherein the function comprises ScheduleEntry  
14 having parameters comprising serviceSpace, channel, time, and scheduleEntry.

15  
16 74. A method as in claim 43, wherein the function comprises SubCategories  
17 having parameters comprising categorizationSystemName, categoryIndex, and  
18 subCategories.

19  
20 75. A method as in claim 43, wherein the function comprises OnCategoryUpdate.

21  
22 76. A method as in claim 43, wherein the function comprises OnChannelUpdate.

23  
24 77. A method as in claim 43, wherein the function comprises OnRangeUpdate.

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78. A computer readable medium having computer executable instructions for performing the steps recited in claim 43.